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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,672	03/29/2004	Masamichi Fujito	XA-10065	1157
181	7590	10/24/2005	EXAMINER	
MILES & STOCKBRIDGE PC 1751 PINNACLE DRIVE SUITE 500 MCLEAN, VA 22102-3833			PHAN, TRONG Q	
			ART UNIT	PAPER NUMBER
			2827	

DATE MAILED: 10/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.		Applicant(s)	
	10/810,672		FUJITO ET AL.	
	Examiner		Art Unit	
	TRONG PHAN		2827	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 March 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) 21-25 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>3/29/05</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

In response to Applicant's request to vacate the last office action filed on October 05, 2005, the restriction requirement has been withdrawn in view of claims 21-25 have been cancelled by the Preliminary Amendment of March 29, 2004.

A new non-Final Office Action has been set forth as below:

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: RAM 4 in Fig. 1; 41, n+, n-, p+, p- and p-Sub in Fig. 3; SPC(L), SPC(R), SEN(L) and SEN(R) in Figs. 5 and 8; SPC(L), SPC(R), CCS(T), CCS(B), SEN(L), SEN(R) and Ion/I_{men}/2 in Figs. 6 and 22; all elements except t₂ and t₃ in Fig. 7; vdd(WIDE), vss(WIDE) and SENSE AMP WIDTH in Fig. 9; vdd(WIDE), vss(WIDE) and SENSE AMP CIRCUIT REGION in Fig. 10; WRITE WL SELECTION, WRITE HIERARCHY SELECTION, READ WL SELECTION, READ SENSE AMP SELECTION and WRITE HIERARCHY SELECTION LINE in Fig. 11; REWRITE SEQUENCE AREA and USER MEMORY AREA in Fig. 13; S1 in Fig. 15; DELAY 1, DELAY 2, DELAY 3, DELAY 4 and D-FF TRUTH TABLE in Fig. 17; 1-CYCLE, 2-CYCLE ACCESS REQUIRED, WAIT REQUIRED and OUTPUT FOR EACH CYCLE in Figs. 18 and 21; DELAY 1, DELAY 2, DELAY 3 and DELAY 4 in Fig. 20; CONTROLLER PART, BUFFER MEMORY, DATA and ADDRESS in Fig. 23; CONTROLLER PART, BUFFER MEMORY, DATA, LOGICAL ADDRESS and PHYSICAL ADDRESS in Fig. 24; SECOND AMP in Fig. 25; 1-CYCLE and 1-CYCLE ACCESS in Figs. 26 and 28;

SPC(L), SPC(R), CCS(T), CCS(B), and SEN(L) in Fig. 29. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: source area 40 (line 5, page 21); drain area 22 (line 14, page 21); floating gate 33 (lines 14-15, page 21 and line 2-3, page 22). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

It is not understood what RAM 4 in Fig. 1; 41, n+, n-, p+, p- and p-Sub in Fig. 3; SPC(L), SPC(R), SEN(L) and SEN(R) in Figs. 5 and 8; SPC(L), SPC(R), CCS(T), CCS(B), SEN(L), SEN(R) and Ion/I_{men}/2 in Figs. 6 and 22; all elements except t₂ and t₃ in Fig. 7; v_{dd}(WIDE), v_{ss}(WIDE) and SENSE AMP WIDTH in Fig. 9; v_{dd}(WIDE), v_{ss}(WIDE) and SENSE AMP CIRCUIT REGION in Fig. 10; WRITE WL SELECTION, WRITE HIERARCHY SELECTION, READ WL SELECTION, READ SENSE AMP SELECTION and WRITE HIERARCHY SELECTION LINE in Fig. 11; REWRITE SEQUENCE AREA and USER MEMORY AREA in Fig. 13; S1 in Fig. 15; DELAY 1, DELAY 2, DELAY 3, DELAY 4 and D-FF TRUTH TABLE in Fig. 17; 1-CYCLE, 2-CYCLE ACCESS REQUIRED, WAIT REQUIRED and OUTPUT FOR EACH CYCLE in Figs. 18 and 21; DELAY 1, DELAY 2, DELAY 3 and DELAY 4 in Fig. 20;

CONTROLLER PART, BUFFER MEMORY, DATA and ADDRESS in Fig. 23;
CONTROLLER PART, BUFFER MEMORY, DATA, LOGICAL ADDRESS and
PHYSICAL ADDRESS in Fig. 24; SECOND AMP in Fig. 25; 1-CYCLE and 1-CYCLE
ACCESS in Figs. 26 and 28; SPC(L), SPC(R), CCS(T), CCS(B), and SEN(L) in Fig. 29
really are since they are not described in the specification.

It is not understood what source area 40 (line 5, page 21); drain area 22 (line 14,
page 21); floating gate 33 (lines 14-15, page 21 and lines 2-3, page 22) really are since
they are not shown in the drawings of the present invention.

It is not understood how the disconnect switch DSW and the sense amp SA are
controlled by the row decoder 25 as described in lines 22-23, page 19 of the
specification since as shown in Figs. 2 the disconnect switch DSW and the sense amp
SA are only connected to write circuit 28.

It is not understood how power source wires 61 and 62 in Fig. 9 are defined as
first power source wires as described in line 7, page 29 of the specification since as
shown in Fig. 9 they are seen as vdd and vss, respectively. Similarly, it is not
understood how power source wires 63 and 64 in Fig. 9 are defined as second power
source wires as described in lines 9-10, page 29 of the specification since as shown in
Fig. 9 they are seen as vdd(WIDE) and vss(WIDE), respectively. Similarly, it is not
understood how power source wires 65 and 66 in Fig. 9 are defined as third power
source wires as described in lines 14-15, page 29 of the specification since as shown in
Fig. 9 they are seen to be connected to power source wires 63 and 64, respectively.

Conclusion

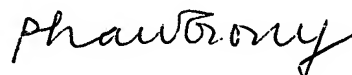
5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tanaka et al., 6,480,418, Tomotani, 6,452,862, Fujioka et al., 6,909,644, Osada et al., 6,839,268, and Umezawa, 6,940,762.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRONG PHAN whose telephone number is (571) 272-1794. The examiner can normally be reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, HOAI HO can be reached on (571)272-1777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**TRONG PHAN
PRIMARY EXAMINER**